

Listing of Claims**1. - 36. (cancelled)**

1 **37. (new)** A method for communicating with a down hole device comprising
2 accepting a user input;
3 creating an equipment command based on the user input;
4 changing a physical influence comprising one or more primary
5 physical influences associated with the borehole in accordance with the
6 equipment command;

7 commanding a down hole device based on changing the physical
8 influence;

9 said commanding comprising intercepting the equipment command
10 and superimposing an additional command on the equipment command to
11 command to the down hole device.

1 **38. (new)** The method of claim 37, wherein the physical influence comprises
2 weight on bit.

1 **39. (new)** The method of claim 37, wherein the equipment comprises rotation
2 speed.

1 **40. (new)** The method of claim 37, wherein the physical influence comprises
2 tracer density.

1 **41. (new)** The method of claim 37, wherein the physical influence comprises
2 mud flow rate.

1 **42. (new)** The method of claim 37, wherein the physical influence comprises
2 mud pressure.

1 **43. (new)** The method of claim 37, wherein the physical influence comprises
2 generating an acoustic signal.

1 **44. (new)** The method of claim 37, further comprising: entering user equipment
2 commands in human perceptible form; and translating the user equipment commands
3 into equipment detectable influences.

1 **45. (new)** The method of claim 37, further comprising: determining from a
2 system state, available influence command states for generating equipment

3 commands.

1 46. (new) The method of claim 37, further comprising
2 dynamically changing a system configuration parameter.

1 47. (new) A computer readable medium containing executable instruction that
2 when executed by a computer perform a method for communicating with a down hole
3 device comprising

4 accepting a user input; creating an equipment command based on
5 the user input;

6 manipulating a physical influence comprising one or more primary
7 physical influences associated with the borehole in accordance with the
8 equipment command;

9 commanding a down hole device based on the manipulation in the
10 physical influence;

11 said commanding comprising intercepting the equipment command
12 and superimposing an additional command on the equipment to command the
13 down hole device.

1 48. (new) The medium of claim 47, wherein the physical influence comprises
2 weight on bit.

1 49. (new) The medium of claim 47, wherein the equipment comprises rotation
2 speed.

1 50. (new) The medium of claim 47, wherein the physical influence comprises
2 tracer density.

1 51. (new) The medium of claim 47, wherein the physical influence comprises
2 mud pressure.

1 52. (new) The medium of claim 47, wherein the physical influence comprises
2 mud flow rate.

1 53. (new) The medium of claim 47 wherein the physical influence comprises
2 generating an acoustic signal.

1 54. (new) The medium of claim 47, further comprising
2 entering user equipment commands in human perceptible form; and
3 translating the user equipment commands into equipment

4 detectable influences.

1 55. (new) The medium of claim 47, further comprising
2 determining from a system state, available influence command
3 states for generating equipment commands.

1 56. (new) The medium of claim 47, farther comprising
2 dynamically changing a system configuration parameter.

1 57. (new) A method for commanding a down hole tool device comprising
2 accepting a user input;
3 creating an equipment command based on the user input;
4 changing a physical influence comprising one or more primary
5 physical influences associated with the borehole in accordance with the
6 equipment command; and
7 commanding the down hole tool based on changing the physical
8 influence.